1.

15 5 6

15 24 -9

2.

1. num3 = -2
2. num3 = -8
3. num3 = -6
4. num3 = -2

3. (see prob3.cpp for code)

//a

enum birdType {PEACOCK, SPARROW, CANARY, PARROT,

PENGUIN, OSTRICH, EAGLE, CARDINAL, HUMMINGBIRD};

//b

birdType bird;

//c

bird = CANARY;

//d

bird = static\_cast<birdType>(static\_cast<int>(bird) + 1);

//e

bird = static\_cast<birdType>(static\_cast<int>(bird) - 1);

//f

switch (bird)

{

case PEACOCK:

cout << "PEACOCK" << endl;

break;

case SPARROW:

cout << "SPARROW" << endl;

break;

case CANARY:

cout << "CANARY" << endl;

break;

case PARROT:

cout << "PARROT" << endl;

break;

case PENGUIN:

cout << "PENGUIN" << endl;

break;

case OSTRICH:

cout << "OSTRICH" << endl;

break;

case EAGLE:

cout << "EAGLE" << endl;

break;

case CARDINAL:

cout << "CARDINAL" << endl;

break;

case HUMMINGBIRD:

cout << "HUMMINGBIRD" << endl;

}

//f

string input;

cout << "Please input a bird name: " << endl;

getline(cin, input);

if (input == "PEACOCK")

bird = PEACOCK;

else if(input == "SPARROW")

bird = SPARROW;

else if(input == "CANARY")

bird = CANARY;

else if(input == "PARROT")

bird = PARROT;

else if(input == "PENGUIN")

bird = PENGUIN;

else if(input == "OSTRICH")

bird = OSTRICH;

else if(input == "EAGLE")

bird = EAGLE;

else if(input == "CARDINAL")

bird = CARDINAL;

else if(input == "HUMMINGBIRD")

bird = HUMMINGBIRD

4.

1. 30
2. the time
3. the party
4. Now is the best time for the party!
5. Now is the time to study for the exam?

5.

1. Yes
2. Yes
3. Yes
4. Yes

6. (See prob6.cpp for code)

//a

int alpha[10][20];

//b int arrays default to 0 on initialization

//c

for (int i = 0; i < 10; i++)

{

for (int j = 0; j < 20; j++)

{

if (i == 0)

{

alpha[i][j] = 1;

}

else

{

alpha[i][j] = 2;

}

}

}

//d

int value = 5;

for (int j = 0; j < 20; j++)

{

for (int i = 0; i < 10; i++)

{

alpha[i][j] = value;

}

value = value \* 2;

}

//e

for (int i = 0; i < 10; i++)

{

for (int j = 0; j < 20; j++)

{

cout << alpha[i][j] << " ";

}

cout << endl;

}

//f

for (int j = 0; j < 20; j++)

{

for (int i = 0; i < 10; i++)

{

cout << alpha[i][j] << " ";

}

cout << endl;

}

7.

struct carType

{

string manufacturer;

string model;

string type;

string color;

int doors;

int mpg\_city;

int mpg\_hw;

int year;

double price;

};

carType new\_car;

new\_car.manufacturer = “GMT”;

new\_car.model = “Cyclone”;

new\_car.type = “sedan”;

new\_car.color = “blue”;

new\_car.doors = 4

new\_car.mpg\_city = 28;

new\_car.mpg\_hw = 32;

new\_car.year = 2006;

new\_Car.price = 25000.00;